

REPORT  
OF THE  
ROYAL SOCIETY  
OF  
TASMANIA  
FOR THE YEAR  
1869.



TASMANIA:  
PRINTED AT THE "MERCURY" STEAM PRESS OFFICE, HOBART TOWN.  
1870.

C7/115

# METEOROLOGICAL AND BOTANICAL ABSTRACT, FOR THE SUMMER QUARTER, 1869-70.

Months.	Mean in Shade.					Solar Intensity Black Bulb Insulated.	Terrestrial Radiation on Grass.	Wind.		Rain.		Evaporation exposed to open Sky.
	Pressure. Barometer corrected to 32°.	Temperature of Air.	Maximum of Air.	Minimum of Air.	Prevailing Currents.			Force.	No. of Days.	Amount col- lected.		
	Inches.	°	°	°	°	°			lbs.	In.	In.	
Dec. ..	29.739	61.55	84	40	107.23	38.0	N.W., S.E.	78.83	15	1.47	5.80	
Jan. ..	29.758	66.62	99	45	107.60	42.5	N.W., S.E.	92.63	9	4.57	5.00	
Feb. ..	29.928	63.45	92	42	107.36	39.0	N.W., S.E.	60.88	5	0.35	5.32	
Mean..	29.805	63.87	91.6	42.3	107.39	39.83	NW., SE.	77.44	26	6.39	16.12	

The mean in all cases is taken from the sums of the three daily registers, and not from the maximum and minimum.

The direction of the wind is registered from currents moving at a height of 192 feet, and the force according to Lind's Wind Gauge. The supposition, however, of a uniform velocity during the month is a very arbitrary one, and the results can be considered only approximately correct.

The relations of the quantities of rain which fell under the different winds are registered each evening at sundown.

The twenty-five years' standard tables are used for obtaining the difference from the average.

FRANCIS ABBOTT, Private Observatory.

## Leafing, Flowering, and Fruiting of a few Standard Plants in the Royal Society's Gardens, for the Summer Quarter, 1869.

- December 10th.—First Red Currant ripe.  
 „ 11th.—Common Privet commencing to flower.  
 „ 14th.—Black Currants commencing to ripen.  
 „ 15th.—Melia azederach commencing to flower.  
 „ 16th.—Doyenne d'Ete Pear commencing to ripen.  
 „ 20th.—Juneating Apple ditto ditto.  
 January 1st.—First Apricot (Royal) gathered.  
 „ 8th.—Grevillea robusta in full flower.  
 „ 9th.—Jargonelle Pear ripe.  
 „ 12th.—Mulberries commencing to ripen.  
 „ 14th.—Veronica angustifolia in full flower.  
 February 1st.—Kerry Pippin Apple commencing to ripen.  
 „ 2nd.—Windsor Pear ditto ditto.  
 „ 6th.—Greengage Plum ditto ditto.  
 „ 15th.—Common Ash commencing to shed seed.  
 „ 18th.—Sycamore ditto ditto

NOTE.—Red Currants were six days, Privet six days, Black Currants six days, Melia azederach three days, Doyenne d'Ete Pear two days, Juneating Apple five days, Apricot nine days, and Grevillea two days later than last season; and Kerry Pippin Apple was three days, Windsor Pear four days, Ash three days, and Sycamore four days earlier. The remainder were about the same time as last year.



REPORT  
OF THE  
ROYAL SOCIETY  
OF  
TASMANIA  
FOR THE YEAR

1869.



TASMANIA:  
PRINTED AT THE "MERCURY" STEAM PRESS OFFICE, HOBART TOWN,  
—  
1870.

PATRON:

Her



Majesty

The Queen.

# Royal Society of Tasmania.

---

## Patron :

HER MAJESTY THE QUEEN.

## President :

HIS EXCELLENCY CHARLES DUCANE, ESQ.

## Vice-Presidents :

HON. T. D. CHAPMAN, Esq., M.H.A.  
VEN ARCHDEACON DAVIES

| HON. SIR R. OFFICER, M.H.A.  
J. W. AGNEW, Esq., M.D.

## Members of Council :

\*F. ABBOTT, Esq., F.R.A.S.  
\*Hon. T. D. CHAPMAN, Esq., M.H.A.  
\*T. GIBLIN, Esq.  
\*JUSTIN McC. BROWNE, Esq.  
SIR R. OFFICER, Knt., M.H.A.  
T STEPHENS, Esq., M.A.

| H. J. BUCKLAND, Esq.  
J. BARNARD, Esq.  
VEN. ARCHDEACON DAVIES  
HON. A. KENNERLEY, Esq., M.L.C.  
M. ALLPORT, Esq., F.L.S., F.Z.S.  
J. W. AGNEW, Esq., M.D.

## Treasurer :

J. DUNN, Esq.

## Hon. Secretary :

| J. W. AGNEW, Esq., M.D.

## Auditors of Annual Accounts :

F. BUTLER, Esq.

| H. COOK, Esq.

## Auditors of Monthly Accounts :

M. ALLPORT, Esq.

| F. ABBOTT, Esq.

## Curator of Museum :

MR. T. ROBLIN.

\* Members who retire next in rotation.



## Honorary Members.

HIS EXCELLENCY SIR WM. T. DENISON, K.C.B., F.R.S., &c.,  
England.

HIS EXCELLENCY SIR GEORGE GREY, K.C.B., &c., Governor

CHARLES JOSEPH LATROBE, Esq., England.

SIR HENRY EDWARD FOX YOUNG, K.C.B., England.

## Corresponding Members.

W. H. ARCHER, Esq., Registrar-General, Melbourne, Victoria.

JOHN JOSEPH BENNETT, Esq., F.R.S., British Museum, London.

REV. W. B. CLARKE, M.A., F.G.S., &c., Sydney.

JOHN GOULD, Esq., F.R.S., London.

JOSEPH DALTON HOOKER, Esq., M.D., R.N., F.R.S., &c., London.

JOSEPH H. KAY, Captain R.N., F.R.S., Melbourne, Victoria.

REV. R. L. KING, B.A., Sydney.

J. MITCHELL, Esq., Sydney.

BARON F. VON MUELLER, C.M.G., M.D., F.R.S., F.L.S., &c., &c.,  
Government Botanist, Melbourne, Victoria.

JOHN PEET, Esq., Professor, Grant's College, Bombay.

FREDERICK PENNY, Esq., F.R.S., Professor of Chemistry in the  
Andersonian University, Glasgow.

W. J. MACQUORN RANKIN, Esq., C.E., F.R.S.L., and E., &c.

W. A. SANDFORD, Esq., Colonial Secretary, Western Australia.

W. WILSON SAUNDERS, Esq., F.R.S., &c., London.

ALFRED R. C. SELWYN, Esq., F.G.S., Government Geologist, Victoria.

REV. CHARLES PLEYDELL N. WILTON, M.A., Newcastle, New South  
Wales.

ADAM WHITE, Esq., F.L.S., &c., British Museum, London.

E. S. P. BEDFORD, Esq., F.R.C.S.L., Sydney, New South Wales.

C. TOMLINSON, Esq., Lecturer on Physical Science, King's College School,  
London.

G. BENNETT, Esq., M.D., F.Z.S., Sydney, New South Wales.

G. KREFFT, Esq., Curator of Museum, Sydney, New South Wales.

PROFESSOR G. NEUMAYER, Munich.

REV. JULIAN E. T. WOODS, F.L.S., F.G.S., F.R.G.S., &c., Penola,  
South Australia.

DR. W. O. SONDER, Foreign Hon. Sec. Society of Naturalists, Hamburg.

# List of Fellows.

† Denotes Life Membership.

Abbott, Francis, F.R.A.S., F.R.M.S.	...	...	Hobart Town
Abbott, F. jun....	...	...	"
Adams, G. P.	...	...	"
Agnew, J. W., M.D.	...	...	"
Allport, Joseph	...	...	"
Allport, Morton, F.L.S., F.Z.S.	...	...	"
Archer, William, F.L.S.	...	...	Cheshunt
Atherton, E.	...	...	Hobart Town
Atkinson, Rev., H. D....	...	...	Oyster Cove
Bilton, H.	...	...	Glenorchy
Barnard, James...	...	...	Hobart Town
†Barry, Sir R., Puisne Judge...	...	...	Melbourne
Boyd, James, Civil Commandant	...	...	Port Arthur
Brent, John	...	...	Hobart Town
Butler, Francis	...	...	Hobart Town
Butler, J.	...	...	Badgad
Bromby, Right Rev. C.H., Lord Bishop of Tasmania	...	...	Hobart Town
Bright, R. S., M.R.C.S.L	...	...	"
Butler, Henry	...	...	"
Buckland, H. J.	...	...	"
Browne, Justin McC	...	...	"
Chapman, Hon. T.D., M.H.A.	...	...	New Town
Cook Henry, M.H.A....	...	...	Hobart Town
Clarke, J. M.	...	...	"
Creswell, C. F.	...	...	"
Cotton, Francis...	...	...	Swanport
Crawford, Lieut.-Colonel	...	...	New Town
Cruttenden, Thomas	...	...	Woodsden
Davies, Ven. Archdeacon	...	...	Hobart Town
Davies, John, M.H.A.	...	...	"
Dear, R. E.	...	...	"

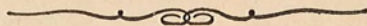


Dobson, Hon. W. L., M.H.A.	...	...	...	Hobart Town
Dobson, H.	...	...	...	"
Dunn, J. A.	...	...	...	"
D'Emden, H. J.	...	...	...	"
Du Cane, His Excellency C....	...	..	...	Government House
Fenton, Michael	...	...	...	Fenton Forest
Fitzgerald, Robert	...	...	...	Hobart Town
Foster, Hon. John, M.L.C.	...	...	...	"
Giblin Thomas...	...	...	...	"
Gould, C., F.G.S., Government Geologist...	...	...	...	"
Gorringe, Thomas	...	...	...	Green Ponds
Grant, James	...	...	...	Tullochgorum
Greig, C. G.	...	...	...	Hobart Town
†Gunn, R. C., F.R.S., F.L.S.	...	...	...	Launceston
Graves, J. W....	...	...	...	Hobart Town
†Gellibrand, W. A. B.	...	...	..	River Ouse
Guesdon, W. A., jun.	...	...	...	Hobart Town
Hall, Dr. E. Swarbreck	..	...	...	Hobart Town
Harris, Rev. R. D., M.A	...	...	...	"
Hinsby, Henry	...	...	...	"
Hopkins, Henry	...	...	...	"
Hunter, Henry	...	...	...	"
Huston, G. F. ...	...	...	...	New Norfolk
Huybers, A.	...	...	...	Hobart Town
Hopkins, H., jun.	...	...	...	"
Irving, Professor	...	...	...	Melbourne University
Ingle, J.	...	...	...	England
Jackson, Adam	...	...	...	Ross
Johnston, William	...	...	...	Hobart Town
Kennerley, Hon. Alfred, M.L.C.	...	...	...	Hobart Town
Kermode, Hon. R. Q.	...	...	...	Mona Vale
Knight, W., jun.	...	...	...	Sandy Bay
Langdon, Captain the Hon. W., R.N., M.L.C.	...	...	...	Montacute
Lewis, David, M.H.A.	...	...	...	Hobart Town
Lowes, Hon. T. Y., M.L.C.	...	...	...	Glenorchy



Maclanachan, James ...	...	...	...	Ballochmyle
MacNaughtan, Alexander ...	...	...	...	Hobart Town
Mather, J. B. ...	...	...	...	"
Maxwell, C. M. ...	...	...	...	"
†Milligan, Joseph, F.L.S. ...	...	...	...	England
Moore, J. A. ...	...	...	...	New Norfolk
Meredith, Hon. C., M.H.A....	...	...	...	Hobart Town
Morrison, Askin ...	...	...	...	"
Marsh, H. J....	...	...	...	"
Mace, J. C. ...	...	...	...	Clarence Plains
Mace, G. ...	...	...	...	Spring Bay
Napier, G. R. ...	...	...	...	Hobart Town
Nelson, H. ...	...	...	...	"
Officer, Hon. Sir Robert, M.H.A., Speaker ...	...	...	...	New Norfolk
Pillinger, J. ...	...	...	...	Antill Ponds
Roberts, H. L....	...	...	...	Hobart Town
Salier, G., M.H.A. ...	...	...	...	"
Sharland, W. S., M.H.A. ...	...	...	...	New Norfolk
Solomon, Joseph ...	...	...	...	Hobart Town
Stephens, T., M.A., Inspector of Schools...	...	...	...	"
Story, J. F. ...	...	...	...	Swanport
Storie, Rev. J....	...	...	...	Hobart Town
Susman, L. ...	...	...	...	"
Stone, W. ...	...	...	...	"
Swan, E. D. ...	...	...	...	"
Scott, J., M.H.A. ...	...	...	...	Launceston
Scott, J. R., M.H.A....	...	...	...	New Town
Tonkin, H. B. ...	...	...	...	Hobart Town
Turnley, G. W. ...	...	...	...	Launceston
Walch, James ...	...	...	...	Hobart Town
Waterhouse, R. S. ...	...	...	...	"
Weaver, G. ...	...	...	...	"
Weston, W. P. ...	...	...	...	Norfolk Plains
Whitcomb, G. ...	...	...	...	Hobart Town
Whyte, Hon. James, M.L.C. ...	...	...	...	"
Wilson, George, jun. ...	...	...	...	Mount Seymour

Wilson, Hon. J. M., M.L.C.	...	...	...	Hobart Town
Wise, F. H.	...	...	...	„
Woolley, J.	...	...	...	„
Wilkins, A.	...	...	...	England
Webster, A. G.	...	...	...	Hobart Town
Wright, Stephen P. H.	...	...	...	„
Young, Russell	...	...	...	„





MINUTES of the ANNUAL GENERAL MEETING of the ROYAL SOCIETY OF TASMANIA, held at the Museum, Macquarie-street, at 7 o'clock p.m., on the 28th January, 1870: T. Giblin, Esq., in the chair.

---

The following gentlemen, who had been previously nominated by the Council, were, after a ballot, duly elected as Fellows of the Society:—Rev. H. D. Atkinson and Horatio Nelson, Esq.

The CHAIRMAN having read the advertisement by which the meeting had been convened, called upon the Secretary to read the report.

The Report for 1869 was then read.

It was moved by Mr. STEPHENS, seconded by Mr. ABBOTT, and carried, "That the Report be adopted and printed for circulation amongst the Fellows."

Mr. J. W. GRAVES moved a vote of thanks to Dr. Agnew for the very careful and elaborate Report he had drawn up, and he supported the motion by some eulogistic remarks on the services rendered by the Hon. Secretary.

Mr. F. ABBOTT seconded, and the motion was unanimously agreed to.

Dr. AGNEW acknowledged the compliment and said he needed no thanks for what he had done; he should at all times be ready to exert himself to further the interests of the Society. He referred to the testimonial which the last annual meeting requested him to procure, and reported that when he was in Melbourne, he endeavoured to select something to the value of the sum subscribed. The testimonial which he procured had been submit-

ted for the inspection of the Fellows, and had, he believed, given general satisfaction to the subscribers.

The meeting proceeded to fill up the four vacancies caused by the retiring members of the Council, Messrs. Justin McC. Browne and A. G. Webster being appointed scrutineers.

The following gentlemen were re-elected :—

VEN. ARCHDEACON DAVIES

HON. A. KENNERLEY, Esq.

M. ALLPORT, Esq.

J. W. AGNEW, Esq., M.D.

On the motion of Mr. BARNARD, seconded by Mr. WEBSTER, Messrs. F. Butler and H. Cook, were re-elected Auditors of annual accounts.

A vote of thanks having been passed to the Chairman, Mr. GIBLIN expressed his acknowledgments, and regretted that the meeting had not been favoured with the attendance of the President, or some Vice-President, as he was of opinion that on these annual occasions there ought to be an address from the chair to the members, as was the case elsewhere.

The meeting then terminated.





## REPORT.

---

The Session of 1869 was opened on the 9th March, with a paper by F. Abbott, Esq., F.R.A.S., on the late "Transit of Mercury over the Sun's Disc," and the following papers were read at the monthly meetings during the year:—"Remarks on the Geological Structure of Part of the North Coast of Tasmania, with special reference to the Tertiary Marine Beds near Table Cape," by T. Stephens, M.A.; "On the Manufacture of Beet Sugar in New South Wales," by James Barnard, Esq.; "Nobert's test-plate, Moller's Diatom type slide, and Modern Microscopes," by F. Abbott, Esq., F.R.A.S., F.R.M.S. "Net fishing in the River Derwent," by M. Allport, Esq., F.L.S., F.Z.S. "Notes on the occurrence of gold at Port Cygnet," by T. Stephens, Esq., M.A.

Communications to the Secretary, by E. D. Harrop, Esq., F.R.M.S., of Launceston, on the development of the *Fasciola hepatica* (Sheep Fluke) and on the *Phylactidium pulchellum* (one of the confervoid Algæ) were also read by permission of the Council.

The Annual Microscopical Soirée was held on the last evening of the Session, and as the Fellows had the privilege of introducing ladies, a very large number of visitors attended, who were both pleased and interested in the examination of the numerous objects collected for their inspection.

The monthly Meteorological Tables have been regularly published, and copies of them forwarded to the Government observatories at Melbourne,

Sydney, Adelaide, Brisbane, Perth, Western Australia, and Wellington, New Zealand, from all of which places we receive similar returns.

The published papers of the Society have been as usual forwarded to various scientific Societies and individuals in England, America, the neighbouring Colonies and elsewhere, for which liberal returns have been received, especially from America, both from the Government and from the Smithsonian Institution.

#### COUNCIL.

No vacancy has occurred during the year. The required list according to Rule XXXII., as amended at the General Meeting of 1868, has been exhibited in the Library for the last fortnight.

#### FINANCE.

In last year's Report the unexpected reduction of the grant-in-aid was referred to. The necessary consequence of this withdrawal of £50 annually has been the contraction of a debt, as it has not been found possible to carry out stricter economy than has hitherto been exercised. We are happy to say our income from subscriptions and arrears contrasts favorably with that of last year, and as Government (in response to an urgent appeal from the Council) has restored the £50 to our grant, we expect to see the debt very considerably reduced at the end of the current year.

Although the Museum grant has been augmented by £50, we are sorry to say the like sum has been deducted from the Garden grant. This is now only £400; a sum for which it is evident these extensive Gardens cannot be attended to in a manner satisfactory to anyone who takes the slightest interest in their proper maintenance.



Our total income (viz., Government Grant, £150 to Museum, £450 to Gardens; subscriptions £150, and sale of plants, &c., £83 11s. 6d.) has been £833 11s. 6d.; which, with £30 12s. in the hands of the Superintendent of the Gardens for payment of current expenses, and about £40 still due for subscriptions, will give a total of £904 3s. 6d. The total expenditure and liabilities amount to £965 1s., leaving to our debit a balance of £60 17s. 6d.

As will be seen by the Balance Sheet, the debt referred to consists chiefly of accounts due to the London Agents. Of these Messrs. Wheatley's is the usual annual account for current literature; the other is an old-standing account of Messrs. Orger and Meryon, of which we are happy to say one moiety has been cleared off during the last two years, leaving at present only £29 5s. 2d. unpaid.

It is only fair to mention that the expenditure for the year (without considering previous liabilities) has been kept within the income, as will be seen by the following figures:—

	£	s.	d.
Total Receipts from all sources	833	11	6
Total Expenditure ... ..	830	9	7
<hr/>			
Balance ... ..	£3	1	11

#### GARDENS.

About 400 new plants have been introduced during the past year, embracing many of great interest or utility; as *Rhamnus utilis*, from which is prepared the green dye of China; *Carya tomentosa*, White Hickory or Mocker Nut; *Carya oliviformis*, Pecan Nut; *Thea Assamica*, Assam Tea;

*Dactylis cæspitosa*, Tussac Grass of Falkland Islands; *Fraxinus pendula aurea*, the Golden Weeping Ash; *Jacaranda mimosæfolia*, and *Jacaranda mimosæfolia alba*; *Dahlia imperialis*, the tree Dahlia which grows to the height of ten or more feet, and is said to be very beautiful when in flower, and *Retinospora ericoides*, from Japan.

Several of the Coniferæ have produced seed for the first time in the colony, during the year. The following are perhaps worthy of especial notice:—*Wellingtonia gigantea*, the mammoth tree of California; *Abies Webbiana*, the purple coned Fir; *Thuja Lobbi*; *Juniperus Langoldiana*; *Pinus muricata*, *pyreniaca*, *Monspeliensis*, and *Montezumæ*.

About an acre of ground has been trenched, and it is purposed to have it thrown open to the public during the ensuing autumn.

Estimated number of visitors for the year, 22,033.

#### MUSEUM.

Additions have been made to the Conchological collection from various parts of Tasmania, especially the East Coast. To Dr. J. Cox, of Sydney, we are also much indebted for valuable contributions. For the proper display of these and other specimens, which are continually increasing in number, additional case room is much required.

For the exhibition of our stores of wet preparations a considerable outlay (to which our funds are at present unequal) for glass jars and spirits would be necessary.

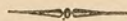
Specimens of our Fauna, for exchange, have been sent to the Museums of Magdalen College, Cambridge, and Kentucky. Offers of exchange have also been received from some of the Continental (European) collections. It is only due to



our former Secretary, Dr. Milligan, to refer to the valuable collection of Tasmanian plants presented by him, arranged and scientifically named by Dr. Hooker, of Kew.

As will be seen by the list of donations many additions have been made to the Geological Museum, all of which have been arranged in their appropriate sections; and the general collection has also received many specimens of Birds, Reptiles, Fishes, &c., with other objects of interest. Several skeletons of indigenous animals have been prepared, and will shortly be articulated and mounted for exhibition.

The Museum has been visited by 12,960 persons during the year. This number is almost double that of any previous year—a circumstance to be attributed in a great degree to the interest excited by the exhibition of the salmon smolts caught in October and December last.



STATEMENT of the Funds of the ROYAL SOCIETY for the Year 1869.

RECEIPTS.		£	s.	d.	£	s.	d.
Annual Subscriptions from 69 Members	..	103	10	0	85	6	3
Arrears of ditto	..	46	10	0	6	8	7
Total Royal Society	..	150	0	0	2	0	0
MUSEUM—Grant-in-aid from Treasury	..	150	0	0	32	11	11
Total Museum	..	150	0	0	3	5	1
BOTANIC GARDENS—Proceeds of Sale of Plants, Fruit, &c.	..	83	11	6	7	10	0
Grant-in-aid from Treasury	..	450	0	0	1	0	0
Total Botanic Gardens	..	533	11	6	47	7	3
					93	14	3
14th Jan., 1870.—Balance overdrawn at Commercial Bank							
		82	4	4	150	0	0
Note.—Dr.—To overdrawn Balance at Bank							
Balance of account due to Messrs. Orger & Meryon, London	..	29	5	2	273	19	1½
Messrs. Wheatley & Co. account to 31st December (not received), estimated at..	..	20	0	0	6	14	1½
Total	..	131	9	6	6	2	3
Cr.—By Cash in hands of Superintendent, Botanic Gardens	..	30	12	0	22	10	0
Subscriptions due	..	40	0	0	21	2	1
Total	..	70	12	0	7	5	0
					24	1	8½
					2	0	3
					2	0	4
Balance to Debit	..	£60	17	6	519	11	11
Audited and found correct, February 23rd, 1870, FRANCIS BUTLER, } Auditors. HENRY COOK.							



## BOOKS PURCHASED &amp; PRESENTED DURING 1869.

[Presentations marked thus.\*]

- Anthropological Society, Memoirs of, Vols. 1 and 2.  
 \*——, Works published by, in 1864-5, 4 Vols.  
 \*——, Catalogue of Books in Library of, 1869.  
 \*——, List of Fellows, 1867.  
 \*Anthropological Review. Nos. 2 to 22. From the Society.  
 \*——Astronomical Register, Nos. 69 to 79. From F. Abbott, Esq.  
 \*——Observations made at Williamstown, Victoria, in 1861-2-3. From Victorian Government.  
 \*Acid, Hydrofluoric, on, by G. Gore, F.R.S. From the author.  
 Athenæum, The, Parts, 490 to 501, October 1868, to September, 1869.  
 Arts, Journal of Society of, Vol. 16, Nos. 833 to 844. Vol. 17, Nos. 845 to 884. November 6th, 1868, to October 29th, 1869.  
 Arts, Transactions of Society of, Vol. 16, bound, 1867-8.  
 \*Association, British, Report of, 1867, bound.  
 \*Agricultural Society of New South Wales, Journal of, Vol. 1, Nos. 6 to 12 ; Vol. 2, Nos. 1 to 4. From the Society.  
 \*Builder, The, Nos. 212 to 225. August, 1868, to September, 1869.  
 \*Boundary Line of New South Wales and South Australia, Determination of. By C. Todd, Esq. From the author.  
 Botanical Works of the late Robert Brown. Vols. 2 and 3.  
 \*Botanical Discoveries in Australia. Pamphlet by W. Woolls, F.L.S. From Mr. S. H. Wintle.  
 \*Beet Sugar, Manufacture of. MS. By J. Barnard, Esq. From the author.  
 Conchologia Iconica. Parts 274 and 275 to 280 and 281.  
 \*Colonial Publications, viz., "Derwent Star," 1810; six Government orders, 1814; promissory note, value 3d., 1824. From F. A. Moore, Esq., Mangalore, Bridgewater.  
 \*Catalogue of Surgical Section, United States Army, Medical Museum. From Government of United States.  
 \*Exhibition, Intercolonial, 1869 (Sydney), Catalogue of. From J. Barnard, Esq.  
 \*Electrograph Pendulum, Description of. By L. R. J. Ellery, Esq., Melbourne Observatory. From the author.  
 Florist and Pomologist, Nos. 11 to 22. November, 1868, to October, 1869.  
 \*Flora Capensis, Vols. 1, 2 and 3. From Dr. Sonder, Hamburg.  
 \*Fossilen Mollusken. by Dr. M. Hornes. From ditto.  
 \*Fluke Sheep, The, on development of, by E. D. Harrop, Esq., F.R.M.S. From the author.  
 Gardeners' Chronicle, Nos. 45 to 52, November 7th to December 20th, 1868 ; Nos. 1 to 44, January 2nd to October 30th, 1869.  
 \*Geological Structure of part of North Coast of Tasmania, By T. Stephens, Esq., M.A. From the author.  
 \*Gold, on the occurrence of, at Port Cygnet. By the same. From the author.  
 \*Intelligencer, Walch's Literary, monthly.  
 Journal, Practical Mechanics. Parts 44 to 55, November, 1868 to October, 1869.  
 \*Journals of House of Assembly, Tasmania, Vols. 5, 8, 12, and 16. From Government.  
 \*—— of Legislative Council, Vol. 4. From ditto.  
 Journal, Quarterly of Science, Nos. 21 to 24, January to August, 1869.  
 Journal of Science, Silliman's American, Vol. 46, No. 138, to Vol. 49, No. 143,  
 \*Law, Reign of, Argyle's. From Dr. Milligan.  
 Magazine, Country Gentleman's, Vol. 1, No. 5 to 9 ; Vol. 2, Nos. 10 to 12.  
 Vol. 3 Nos. 13 to 16, November, 1868, to October, 1869.  
 \*Mining Surveyors and Registrars, Victoria, Report of 31st December, 1868. From Government of Victoria.  
 Magazine of Science and Art (Sydney), Vol. 2, 1859.

- \*Meteorological Observations made at Hobart Town by F. Abbott, Esq., F.R.M.S., &c. Monthly Tables for 1869.
- \* ——— Port Arthur, from J. Boyd, Esq., ditto, ditto, ditto.
- \* ——— Swansea, from Dr. Story, ditto, ditto.
- \* ——— Westbury, from C. Belstead, Esq., ditto, ditto.
- \* ——— from King's Island, Swan Island, Goose Island, Kent's Group, Mount Nelson, and South Bruni. From the Hobart Town Marine Board.
- \*Meteorological Observations, New Zealand, printed tables January to October, 1866: Report 1868; Observations 1868. From Government of New Zealand.
- , Brisbane, January to July 1869, monthly tables; Summary for 1868. From Government of Queensland.
- , Perth, Western Australia, ditto June to October, 1869. From W. J. Knight, Esq.
- , New South Wales, ditto, January to December, 1866
- , Printed tables 1865-6. From Government Observatory.
- \* ———, Melbourne, ditto April to December, 1869, From Government Observatory.
- \* ———, Adelaide, ditto for December, 1868.
- Natural History, Annals and Magazine of, Vol. 2, Nos. 11 and 12; Vol. 3, Nos. 13 to 18; Vol. 4, Nos. 19 to 22.
- Naturgeschichte, Archiv für, No. 6, 1866: Nos. 4 and 5, 1867.
- \*New Zealand, Abstract Report of Geological Survey of, 1868-9. From N.Z. Government.
- \*Nobert's Test Plate, &c., by F. Abbott, Esq., F.R.A.S., F.R.M.S. From the author.
- \*Net Fishing in the River Derwent, by M. Allport, Esq., F.L.S., F.Z.S. From the author.
- \*Proceedings of Royal Society, London, Vol. 16, Nos. 95 to 104; Vol. 17, Nos. 105 to 113; Vol. 18, No. 114. From the Society.
- \* ——— Royal Institution of Great Britain, Vol. 5, Part 1, No. 45, Part 2, No. 46.
- \* ——— Essex Institute, Salem, Massachusetts, U.S.A., Vol. 4; and parts 1 and 2, Vol. 5.—Naturalists' Directory, No. 1.
- \*American Philosophical Society, Philadelphia, Vol. 10, No. 76.
- \* ——— American Academy of Arts and Sciences, Boston, U.S., Vol. 6.
- \*Phylactidium pulchellum—On growth and development of, by E. D. Harpor, Esq., F.R.M.S.
- \*Report of Mining Surveyors, &c., Victoria, to 30th September, 1869. From Victorian Government.
- \* ——— of Registrar General, Victoria, December 1868 and March 1869. From ditto.
- \* ———, Annual, of Secretary of War, Washington, United States, 1866.
- On Epidemic Cholera, being Circular No. 6 of Surgeon General's Office, Washington, U.S.
- , Inaugural, of Cincinnati Observatory, June 1868.
- of Leeds Literary and Philosophical Society, 1868-1869.
- , 7th Annual, of Inspectors of Salmon Fisheries, England and Wales. From J. A. Youl, Esq.
- Student, The, Nos. 10 to 21, Nov. 1868, to Nov. 1868.
- \*Society, Royal Geographical, London, Proceedings of, Vol. 12, Nos. 2 to 5; Vol. 13, No. 1, and slips of meetings.
- Journal of, Vol. 37, 1867.
- \*Society, Linnean, Journal of, Vol. 9, No. 40; Vol. 10, Nos. 41 to 45, (Zoology) Vol. 9, No. 44; Vol. 10, Nos. 45 to 48,—Vol. 11, No. 49, (Botany).—From the Society.
- , Geological London, Quarterly Journal of, Vol. 24, Parts 2, 3, and 4, Nos. 94 to 96; Vol. 25, Pt. 1, Nos. 97, 48. From the Society.
- List of, 1868.
- \* ———, Royal Asiatic, Journal of, Vol. 3, Parts 1 and 2. From the Society.



- \*Society, Zoological, of London, Proceedings of, Parts 2 and 3, May to December, 1867, March to June, 1868.  
 \*—, —, Index to Proceedings, 1848 to 1860.  
 \*—, —, Report of, 1868.  
 \*—, Boston (United States), of Natural History, Vols. 7 and 10, Vol. 11, Nos. 1 to 6.  
 \*—, —, Memoirs of, Vol. 1, Parts 1 and 2.  
 \*—, Royal, of N. S. Wales, Transactions of, Vol. 1.  
 \*Statistics of New Zealand, 1867 and 1868. From N. Z. Government.  
 \*— of Victoria for 1867 and 1868; general index to ditto. From Victorian Government.  
 \*Survey, Geological, of Victoria, Maps, 1 vol. From Sir Robert Officer.  
 \*Smithsonian Institution, Washington, United States, Report for 1865. From the Institution.  
 \*— Contributions to Knowledge, Vols. 6 and 7. From the same.  
 \*Tasmanian Industries—Pamphlet by J. E. Calder, Esq. From the Government.  
 \*Transits of Venus in 1774 and 1882, Observations on. By G. B. Airey, Esq., Astronomer Royal. From the author.  
 \*Transactions of New Zealand Institute, 1868. From the Institute of Institution of Engineers in Scotland, Vols. 1 to 12 (1857 to 1868.) From the Institution.  
 \*— of Philosophical Society of New South Wales, 1862-5. From the Society.  
 \*— of Society of Naturalists, Hamburg. From the Society.  
 Vertebrata, Structure and Development of Shoulder Girdle and Sternum in. By W. K. Parker, Esq., F.R.S. (*Ray Society's Volume for 1867.*)

## LIST OF OBJECTS PRESENTED TO THE MUSEUM DURING 1869, WITH NAMES OF DONORS.

- Allport, M., Esq., F.L.S., F.Z.S.—Gelatinous tube of *Salpa*, and small Crustacean found within it. From Adventure Bay. Two fish, name unknown, caught at Wedge Bay.  
 Aubin, F., Esq.—A Sun-Fish (*Orthogoriscus sp.*), from Spring Bay.  
 Bennett, Dr.—A Crab from Sandy Bay.  
 Bilton, H., Esq.—A double head of Calf. Curious growth of root of tree.  
 Barnard, J., Esq.—A Package of Seed of Sugar Beet for distribution. Specimens of Cinnabar ore from the Cudgegong, New South Wales.  
 Bomford, F. E., Esq.—Specimens of Fluke (*Distoma sp.*) from Liver of a Shark.  
 Buckland, Mrs. J. R.—A Bullet from a double-barrelled gun, found loaded, on the 30th May, 1859, by the side of two skeletons belonging to the retreating party of Sir John Franklin's expedition, in a boat on the west coast of King William's Island, lat. 69deg. 8min., N., long. 99deg. 24min., W. [Vide "Fate of Franklin and His Discoveries," by Captain McClintock, page 294.] A portion of a Boat's Ensign, belonging to the same expedition, left at the Northern Cairn, Cape Felix, May, 1847, and discovered May, 1859, by Lieut. Hobson, of Lady Franklin's screw yacht Fox. A portion of the Riband of the Order of the Redeemer, of Greece, worn by the late Sir John Franklin. An Almond from the Convent Garden on Mount Sinai.  
 Cox, Dr. J., Sydney.—Sixty-seven specimens of Shells. A large number of Shells from various parts of the world.  
 Castray, L. R., Esq., A.C.G.—A letter in the New Zealand language, addressed by one native to another, with translation. Six specimens of Woods from Madagascar.

- Castray, Miss.—Leaves of Silver Leaf Tree, from Table Mountain, Cape of Good Hope; a Damara Lady's Necklace, from South Africa.
- Clifford, Mr. G. P., Dunedin.—Two Limestone Boulders (*Septaria*) from Moeraki Beach, New Zealand
- Dyer, Mr. R. T.—An albino variety of the Rosella Parrot (*Platycercus eximius*.)
- Dear, Rev. P. E.—Specimens of Iron Ore and laminated Quartz. A number of stone implements of the Aborigines collected by Mr. Rollings, of Forcett.
- Dinham, Mr. G.—Two Fossil Shark's Teeth from the Lias, near Bath, England.
- Edwards, Miss S. P.—Specimens of Salpa found at sea on the passage from England. Eleven Copper Coins and Tokens.
- Exton, Mr. W., Oatlands.—An Owl (*Strix castanops*.)
- Edgar, Mr. J. C., Sorell.—Seven specimens Land Shells.
- Ferguson, P., Esq.—A Letter of the Chetty Merchants (*Tamils*), of Southern India and Ceylon, with an explanatory note.
- Gooch, Mr. G. F.—A small Silver Coin.
- Gellibrand, W. A. B., Esq.—A female specimen of the native Tiger (*Thylacinus cynocephalus*). Photographs of Machinery in Leeds Exhibition.
- Gates, Mr., Jerusalem.—A Black Cockatoo.
- Glover, Mr.—Fifteen Geological Specimens from West Coast of Tasmania.
- Guichard, M. H., ship La Somme.—One Bronze Coin, five cents; one Silver ditto, five cents, Napoleon III., 1862.
- Garth, Captain.—An Albatross (*Diomedea exulans*.)
- Hannaford, S., Esq.—Specimen of Sipunculus from Corio Bay, Geelong. An Ostracion. Two Seeds of Trappa Bicornis from China.
- Heron, M. C., French ship La Somme.—Two copper coins, colony of Cayenne, Louis XVI., 1789. One ditto Republic of Berne, 1796.
- Hull, H. M., Esq.—A Key-hole Limpet; a Chiton; a Magpie Perch; a Malay Kris; three small Fish.
- Hedberg, Mr. Oscar.—A collection of Shells from East Coast of Tasmania.
- Holmes, Mr. F.—Portion of Skin of Whale tanned.
- Harrop, E. D., Esq., Launceston.—Four mounted specimens of Sheep Fluke (*Fasciola hepatica*.)
- Hull, J., Esq.—A Falcon (*Falco melanogenys*).
- Johnston, W., Esq., Trinity Hill.—A Boomerang and Waddie from Queensland; a Spear from New Hebrides; a large Seed, said to have been taken from the stomach of a Barracouta; four Coins, and one Brass token.
- Jones, Mr. J.—A small Turtle from Lady Elliott's Island.
- Kelly, Mr. J.—A Shilling of Queen Anne, 1707, and a Danish Coin, 1771. A Brass Basin (Indian).
- Knight, Mr. W., jun.—A collection of Geological Specimens brought by Mr. Glover from the western coast of the Island.
- Kreffit, G., Esq., Sydney Museum, per M. Allport, Esq.—Five Bird Skins from King George's Sound.
- Legrand, Mr.—Specimens of new species of Helix (*Helix Allporti*. Cox.) Two ditto of *Bulimus Tasmanicus*.
- Luttrell, Mr. G.—Shell impressions from Port Cygnet.
- Milligan, Dr., London.—Seven packages dried Tasmanian Plants, named by Dr. Hooker. Two ditto of Italian plants. Six specimens of *Calymene Blumenbachii* from Wenlock Shale, Gotland. Specimen of Esparto Grass, for paper making.
- McLaren, Mr.—A cluster of Barnacles from piles of wharf.
- Manley, Miss S. A.—Four specimens of *Chamostrea* from Carlton beach.
- MacLaine, J., Esq., Clarke's Island.—An Avocet (*Recurvirostris rubricollis*.)
- Meredith, Hon. C., Esq.—Two specimens of Silver Fish from Prosser's Bay.
- Meredith, Mrs. C.—Specimen of Australian Coot (*Fulica Australis*.)
- McRa, Mr. H.—Three Geological Specimens from Bothwell. A stone implement of the Aborigines.
- Mitchell, Mr., Sandy Bay.—A Basket and Necklace made by Aborigines of Tasmania.



- Maclanachan, J., Esq.—A Hen Golden Pheasant. A Pheasant (a cross between English and Chinese varieties.) One ditto.
- Maning, A. H., Esq.—A Sun Dial made and used by Spanish shepherds.
- Nichols, Captain T.—Skeleton of a Fish from Howe's Island.
- New, Mrs.—A Brown Trout (*Salmo fario*) caught in the Bagdad Creek.
- Officer, Sir R.—A White Hawk.
- Propsting, R., Mr.—A Swamp Hawk (*Circus assimilis*.)
- Peck, Miss.—An English Barn Owl (*Strix flammea*), prepared and mounted.
- Rollings, Mr., Sorell.—A Jade Chisel from New Zealand. A stone implement used by Tasmanian Aborigines for skinning Kangaroo, &c.
- Ransome, Mr. R., Southport.—Specimen of Felspar Porphyry, and the ear-bone of a Whale.
- Ransley, Mrs.—A Lizard with double tail.
- Rossitor, Mr.—Specimen of the Maori Hen of New Zealand. An English Partridge. Three bones of foot of Moa (*Dinornis* sp.)
- Roblin, Mr.—A Black Cockatoo (*Calyptorhynchus xanthonotus*.)
- Room, Mrs., Launceston.—A half Rupee.
- Roberts, Captain.—A Snake and three large Centipedes.
- Swan, J., Esq.—Skeletons of Forester and Brush Kangaroo.
- Swan, E. D., Esq.—Polished specimen of Fluor Spar from Derbyshire, England.
- Salmon Commissioners.—A Salmon Smolt caught in the Derwent.
- Stagg, Mrs.—Eight Limestone Fossils (*Tasmanian*.)
- Stephens, T., Esq.—A Kingfisher (*Alcyon sanctus*) from Southport.
- Swift, Mr. A. H., Little Taylor's Bay.—Two specimens of Hematite from Point Ventinat.
- Swan, E. D., Esq.—Nest and egg of *Epthianura albifrons* from Cornelian Bay.
- Story, Dr., Swansea.—Skeletons of Wedge-tailed Eagle, Crane, Bandicoot, &c.
- Seymour Coal Company.—Slab of Shale with plant impressions, from Seymour Mines. Specimen of Coal from West Wanganui Inlet, New Zealand.
- Taylor, Mr. A. J., New Norfolk.—A Copper Coin of French Republic.
- Townsend, Mr. J.—Specimens of calcareous incrustations on roots of plants, from sandy beach at Pittwater.
- Thomas, Mr. W. J.—A large specimen of Native Bread (*Mytilus Australis*.)
- Turner, Mr. H.—An Irish Penny, and a Sydney token.
- Wintle, Mr. S. H.—A vegetable impression in Shale from Mount Wellington (*Endogenophyllites Wellingtonensis*. McCoy.) A cluster of plant impressions from Claystone. Fragments of Shale with impressions of plants, from New Town. Specimen of *Pholas* from Sandy Bay. A Gall Fly and nest; also a smaller species with its larva. Seventeen named specimens of Tasmanian Coleoptera. Specimen of *Cleithrelepis* from New South Wales, discovered by the Rev. W. B. Clarke. A mineral specimen from the Mudstone, Huon Road.
- Whitely, Mr.—A Silver Coin, 10 cents, Netherlands, 1849.
- Walch, Mr. J. H. B.—A Shilling of Queen Elizabeth; a Farthing of George II., 1741; a Copper Coin of French Republic (L'an 5); ditto of one of the Roman Emperors.
- Whitcomb, G., Esq.—Samples of Coal from Lambton Colliery, Newcastle, and Bituminous Shale from Hartley, New South Wales. A sample of Sugar Cane grown in Queensland.
- Wilkinson, F. B., Esq.—A Mountain Duck (*Casarca tadornoides*).
- Williams, Captain.—Sample of Mineral Water, from Spring Bay. Tail of Tunny.
- Young, Mr. J.—Eight specimens of Crustaceans.

PLANTS AND SEEDS RECEIVED AT THE ROYAL SOCIETY'S  
GARDENS DURING 1869.

- February 10th.—From the Acclimatisation Society, Christchurch, New Zealand.—Two packets Seeds.  
 February 20th.—From Mr. C. F. Creswell.—Nine packets Seeds, eleven species tuberous plants received from England.  
 March 2nd.—From Mr. C. F. Creswell.—Eighteen first-class new Dahlias.  
 April 5th.—From Mr. T. C. Wren, Mount Hobson Nursery, Remuera, New Zealand.—One Case containing 24 plants.  
 April 5th.—From the Melbourne Botanic Gardens.—One Case containing 14 plants.  
 June 15th.—From Mons. Verschaffelt, Ghent, Belgium.—One Case containing 48 plants, of which 33 were alive and 15 dead; one Bundle containing 106 varieties fruit, of which 43 were alive and 63 dead.  
 June 25th.—From Mr. G. Brunning, St. Kilda Nurseries, Melbourne.—One Case containing 60 plants.  
 June 25th.—From Mr. Joseph Harris, South Yarra Nurseries, Melbourne.—One Case containing 47 plants.  
 June 25th.—From the Melbourne Botanic Gardens.—One Case containing 29 plants.  
 July 14th.—From Mr. E. B. Heyne, Seedsman, Adelaide.—28 packets seeds.  
 July 16th.—From Mr. S. Clifford, Dunedin, New Zealand.—Five plants *Cyathea*.  
 July 21st.—From the Ven. Archdeacon Davies.—Twenty-two varieties *Pelargonium* seed.  
 July 27th.—From Mr. James Jones, Melbourne.—Two packets seeds.  
 August 20th.—From the Melbourne Botanic Gardens.—One Case containing 18 plants.  
 September 4th.—From Messrs. Taylor and Sangster, Toorak Nurseries, Melbourne.—One Case containing 16 plants.  
 November 10th.—From Mr. Robert Young, Gipps Land.—One packet *Pittosporum* seed.  
 November 23rd.—From Mr. C. F. Creswell.—Six packets seeds.  
 December 21st.—From Joseph Milligan, Esq., London, favoured by Captain Lulham.—48 packets seeds.  
 December 24th.—From Messrs. Taylor and Sangster.—One Case containing 59 plants.

PLANTS AND SEEDS SENT FROM THE ROYAL SOCIETY'S  
GARDENS DURING 1869.

- February 27th.—To Mons. A. Verschaffelt, Ghent, Belgium.—One packet Seeds.  
 March 24th.—To the Melbourne Botanic Gardens.—Lot Box Cuttings.  
 March 30th.—To the Sydney Botanic Gardens.—One Case containing 40 plants.  
 May 8th.—To J. W. Newman, Esq., Adelaide.—One Box containing 25 plants.  
 May 25th.—To Mr. Joseph Harris, Nurseryman, Melbourne.—One Case containing 44 plants and 26 papers seeds.  
 May 26th.—To Messrs. Taylor and Sangster, Toorak Nurseries, Melbourne.—Thirty-six varieties Bulbs.  
 June 16th.—To Mr. G. Brunning, St. Kilda Nurseries, Melbourne.—One Case containing 54 plants and 12 packets seeds.  
 September 9th.—To Messrs. Taylor and Sangster, Toorak Nurseries.—Nine packets *Conifer* Seeds.  
 September 28th.—To Mr. S. Clifford, New Zealand.—One Case containing 25 plants.  
 December 20th.—To the Sydney Botanic Gardens.—One Case containing 40 plants.



PLANTS SUPPLIED FOR THE DECORATION OF PUBLIC PLACES  
DURING 1869.

For Government House Grounds.—Ninety plants.

For decoration of the grounds of Cascade Invalid Depôt.—Forty Cypress plants, eighty Trees and Shrubs, and thirty six Herbaceous Plants.

For the grounds of Church of England, Campbell Town.—Thirty-six plants.

For Castray Esplanade.—Seventy plants.

F. ABBOTT, JUN.,

*Superintendent R. S. Gardens.*



PLANTS INTRODUCED INTO THE ROYAL SOCIETY'S  
GARDENS DURING 1869.

Alseuosmia quercifolia	Erica tubiflora
Anemone apennina	"    vulgaris
"    fulgens	"    Willmoreana
"    Narcissifolia	Esculus rubro atosanguinea
Aralia Sieboldtii	Fraxinus pendula aurea
Aristolochia gigantea	Galanthus plicatus
Asclepias Douglassii	Galaxia Germanica
Bellevia ramosa	Gentiana lutea
Bobartia aurantiaca	Gesnera Princei
Bomarea multiflora	Gossypium Sturtii
Buxus latifolius	Habranthus Andersonii
Caloscardium nerinifolium	Hepatica angulosa
Campanula Elatineæ	Hoheria populnea
"    Hohenekeri	Hydrangea japonica
Carya oliviformis	Ipomæa filicifolia
"    tomentosa	Iris reticulata
Cestrum Palqui	Ismene sp.
Chelone barbata Torreyi	Jacaranda digitaliflora
Chorizema diversifolia	"    digitaliflora alba
"    soulangeana	Jasione humilis
"    spectabilis	Jubæa spectabilis
Citriobatus microphyllus	Lilium Takesume
Claytonia perfoliata	"    testaceum
Corokia buddleoides	Linaria alpina
Cotoneaster laxiflora	"    tripartita superba
Cosmos bipinnatifidus	Lobelia Cardinalis Q. Victoria
Crocus chrysanthus	"    fulgens purpurea
"    nivalis	Melicytus lanceolatus
Cummingia bulbocodium	Merendera bulbocodium
Cuphea purpurea Kermessina	Mesembryanthemum Tegens
Cussonia thyrsoiflora	Narcissus juncæfolius
Dactylis cæspitosa	Ornus rotundifolius
Datura fastuosa Huberiana	Oxalis tropæoleoides
Dahlia imperialis	"    valdaviana
Delphinium Madame Rougiere	Passiflora Jumbo
"    Queen of England	Pentstemon glabra
Dianella Media	"    Lobbi
Draba Bætica	Phenocoma prolifera
Ehretia acuminata	Pithocolobium umbrosum
Enothera Drummondii nana	Pinus patula
Epimedium alpinum	Pimelia diosmæfolia
"    grandiflorum	Plagianthus Lyalli
"    pinnatum	Podocarpus dactyloides
Erica baccans	Polygonatum verticillatum
"    calycina major	Prunus sinensis rosea
"    Margaritacea	Psidium album
"    persoluta	Retinospora ericoides
"    Plukenetii	"    plumosa
"    tetralix	Rhabdothermus Solandri



*Rhamnus utilis*  
*Sagus ruffia*  
*Saxifraga Fortunii*  
*Scilla umbellata*  
*Scizostylis coccinea*  
*Sericographis Ghiesbrihtiana*  
*Silene alpestris*  
*Solanum acanthocarpum*  
*Spiraea umbrosa*  
*Swainsonia Greyana carminea*  
*Syringa Charles X.*  
*Taxodium Sinensis*  
*Terminalia Bellerieri*  
*Thea Assamica*  
     *viridis*  
*Thujaopsis lætevirens*  
*Tydea venosa*  
*Ulmus campestris aurea variegata*  
*Ulmus Montana Vegeta*  
     *Sinensis aureus variegatus*

#### FERNS.

*Adiantum Cunninghamii*  
     *Capis veneris*  
     *formosum*  
     *nigrum*  
     *pubescens*  
*Aneimia fraxinifolia*  
*Aspidium molle*  
     *Sieboldtii*  
*Asplenium Adiantum nigrum*  
     *attenuatum*  
     *ebenum*  
     *falcata*  
     *flabellifolium*  
     *flaccidum*  
     *laxum*  
     *trachominoides*  
*Blechnum Braziliensis*  
     *gracile*  
*Cyathea medullaris*  
     *dealbata*  
*Davallia canariensis*  
     *Giberosa*  
*Diplazium Twaitsii*  
*Doodia aspera*  
     *caudata*  
     *caudata confluens*  
*Gleichenia microphylla*  
*Gymnogramma sulphurea*  
*Leptopteris hymenophylloides*  
     *superba*

*Lomaria Pattersonii*  
     *pumila*  
*Lycopodium cæsius violaceum*  
     *umbrosum*  
*Lygodium articulatum*  
*Maraltia salicina*  
*Niphobolus lingua*  
     *rupestris*  
*Pellæa rotundifolia*  
*Platyloma falcata*  
*Polypodium angustifolium*  
     *glaucum*  
     *paradasiaca*  
     *vaccolens*  
*Pteris cretica*  
     *cretica alba lineata*  
     *japonica*  
     *longifolia*  
     *pinnata*  
     *rotundifolia*  
     *scaberula*  
     *semipinnata*  
*Scolopendrium officinarum*  
*Trichomanes elongatum*  
     *reniforme*  
*Zinniscium serratum*

#### TREE PÆONIES.

*Pænia Moutan Avocat Guillon*  
     *Cardinel Antonelli*  
     *Dyonidii*  
     *George Rollison*  
     *Germanica*  
     *lactea*  
     *Mde. Guidebach de Raes*  
     *odorata plenissima*  
     *papaveracea fimbriata*  
     *papaveracea albo pleno*  
     *Professor Morren*  
     *Victoria Superba*

#### ROSES.

*Achille Gonad*  
*Alfred Colomb*  
*Alpaide de Rolatier*  
*Beauty of Waltham*  
*Comtesse de Barbautau*  
*Evêque des Nismes*  
*François Lacharme*  
*Heroine Vaucluse*  
*John Keynes*

La Duchesse de Morny  
 Louis XIV.  
 Madame Roussett  
 Marguerite Bonnet  
 Model of Perfection  
 Prince Leon  
 Princess Mary of Cambridge  
 Princess of Wales  
 Rushton Radcliff  
 Souvenir de W. Wood  
 Senateure Favre

# PELARGONIUM.

Belle of the Ball  
 Fantastic  
 Fair Rosamond  
 High Admiral  
 John Hoyle  
 Magnet  
 Rosa Bonheur  
 Royalty  
 Regularity  
 The Prince

# GERANIUM.

Arab  
 Autocrat  
 Beauty of Europe  
 Clio  
 Crystal Palace Gem  
 Crimson Queen  
 Cybister  
 Dr. Hogg  
 Enchantress  
 Ephraim  
 Excellent  
 Gaiety  
 Gloire de Nancy  
 Golden Pheasant  
 Jason  
 Luna  
 Legrand  
 Mangle's silver variegated  
 Model  
 Monte Rosa  
 Prince Imperial  
 Purple Queen  
 Rival Stella  
 Sambo  
 St. George  
 Triumphans

Triumph de Lorraine  
 Waltham Nosegay

# FUCHSIA.

Arabella  
 Bland's florabunda  
 Conquest  
 Diadem  
 Favourite oi Fortune  
 Lady Heytesbury  
 Mrs. Gladstone  
 Rose of Denmark

# VERBENA.

Beauty  
 Daylight  
 Empress  
 Ensign  
 Eugenie  
 Gipsy Queen  
 Lion Hunter  
 Mary Ann  
 Miss Mary Law  
 President  
 Queen Victoria  
 Ringleader

# DAHLIA.

Andrew Dodds  
 Angelina  
 Bessie  
 Chairman  
 Constance  
 Caroline Tettrell  
 Chameleon  
 Compacta  
 Delicata  
 Flower of the Day  
 Golden Pheasant  
 Grand Sultan  
 Hebe  
 Lady Derby  
 Leopardess  
 Lord Derby  
 Lord Fielding  
 Memorandum  
 Miss Manners-Sutton  
 Miss Turner  
 Mrs. Crisp  
 Mrs. Dodds



Mrs. Piggott  
 Mont Blanc  
 Nora Creina  
 Princess Radcliff  
 Prince of Russia  
 Purple Gem  
 Queen Mab  
 Queen of Whites  
 Rosy Queen  
 Summertide  
 Sparkler  
 Sir Greville Smythe  
 Tiffany  
 Viceroy  
 White Standard  
 Wonderful

## APPLES.

Annat Scarlet  
 Beauty of Wilts  
 Blenheim Pippin  
 Bull's Golden Reinette  
 Coccagee  
 Ingestrie Yellow

Lodgemore Nonpareil  
 Magnum Bonum  
 Nelson's Codlin  
 Nonsuch Paradise  
 Pine Apple Russet  
 Prizetaker  
 Rick's Nonsuch  
 Rosemary Russet  
 Striped Beaufin.

## PEARS.

Bell de Bruxelles  
 Kingssessing  
 Trillington

## PLUMS.

Early Prolific  
 Guthrie's Late Green  
 Siegel's Apricot

## STRAWBERRY.

Cockscomb

F. ABBOTT, JUNR.,

*Superintendent R. S. Gardens.*